

Amendments to the Specification:

Please replace the paragraph beginning on page 25 line 4, as amended in the previous office action, with the following amended paragraph:

In another embodiment genetic variation may be correlated with variation in gene expression pattern. Much of the genetic variation between individuals is the result of single nucleotide polymorphisms (SNPs). The presence of SNPs in or near a gene may result in differences in gene expression, which may result, for example, from changes in the rate of transcription, the stability of the mRNA, splicing of the mRNA, or translation of the mRNA. In one embodiment an array comprising SEQ ID Nos. ~~1-688,466~~ 1-699,466 and probes to genotype selected SNPs in the rat genome may be used to monitor genotype and expression changes that correlate with differences in genotype.